CLAIM AMENDMENTS

Claims 1 through 90 (canceled)

- Claim 91 (Previously presented) An isolated
 polynucleotide coding for a polypeptide comprising the amino acid
 sequence of SEQ ID NO:2.
- 1 Claim 92 (Previously presented) A vector comprising the 2 isolated polynucleotide of claim 91.
- Claim 93 (Previously presented) A bacterium of the genus
 Corynebacterium comprising the isolated polynucleotide of claim 91.
- Claim 94 (Previously presented) The bacterium of claim
 93, wherein said bacterium is one of the species Corynebacterium
 glutamicum.
- Claim 95 (Previously presented) A bacterium of the
 species Escherichia coli or Corynebacterium glutamicum comprising
 the vector of claim 92.
- Claim 96 (Previously presented) An isolated
 polynucleotide comprising the nucleotide sequence of nucleotides
 165 to 3587 of SEQ ID NO:1.

- 1 Claim 97 (Previously presented) A vector comprising the 2 isolated polynucleotide of claim 96.
- Claim 98 (Previously presented) A bacterium of the genus
 Corynebacterium comprising the isolated polynucleotide of claim 96.
- Claim 99 (Previously presented) The bacterium of claim
 98, wherein said bacterium is one of the species Corynebacterium
 glutamicum.
- Claim 100 (Previously presented) A bacterium of the species Escherichia coli or Corynebacterium glutamicum comprising the vector of claim 97.
- Claim 101 (Previously presented) An isolated
 polynucleotide comprising the nucleotide sequence of SEQ ID NO:1.
- Claim 102 (Previously presented) A vector comprising the isolated polynucleotide of claim 101.
- Claim 103 (Previously presented) A bacterium of the genus Corynebacterium comprising the isolated polynucleotide of claim 101.

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- Claim 104 (Previously presented) The bacterium of claim 1 103, wherein said bacterium is one of the species Corynebacterium 2 glutamicum. 3
- Claim 105 (Previously presented) A bacterium of the 1 species Escherichia coli or Corynebacterium glutamicum comprising 2 the vector of claim 102. 3
- Claim 106 (Previously presented) An isolated polypeptide 1 having pyruvate carboxylase enzymatic activity comprising the amino 2 acid sequence of SEQ ID NO:2. 3
- Claim 107 (Currently amended) A pVWEX1pyc vector 1 contained in the bacterium deposited under DSM 12893. 2
- Claim 108 (Previously presented) A bacterium comprising 1 the vector of claim 107. 2
- Claim 109 (Currently amended) An isolated pyruvate 1 carboxylase polypeptide having an amino acid sequence at least 95% 2 substantially identical to the amino acid sequence of the pyruvate carboxylase polypeptide having the complete amino acid sequence in SEQ ID NO:2. · 5
- Claim 110 (New) A method of microbial production of 1 amino acids of aspartate and glutamate family strains in a culture 2

- medium, by microorganisms, whereby said microorganisms are
- transformed by an isolated polynucleotide encoding pyruvate
- 5 carboxylase comprising a sequence selected from the group
- 6 consisting of:
- a) a polynucleotide encoding a pyruvate carboxylase
 polypeptide comprising the amino acid sequence of SEQ ID NO: 2; and
- b) a polynucleotide encoding the pyruvate carboxylase
 polypeptide having the amino acid sequence encoded by the clone
 contained in the bacterium deposited under DSM 12893,
 wherein said. pyruvate carboxylase is expressed with increased copy
- numbers compared to the starting microorganism and producing said
- 14 amino acids.
- Claim 111 (New) The method according to claim 110,
 wherein the amino acid is selected from the group consisting of
 L-lysine, L-threonine, L-homoserine, L-glutamate and L-arginine.
- Claim 112 (New) The method according to claim 110,
 wherein the microorganism strains are selected from the group
 consisting of Corynebacterium, Escherichia coli, and Serratia
 marcescens.
- Claim 113 (New) The method according to claim 110,
 wherein increasing the copy number is achieved by transforming said
 microorganisms with a vector comprising the isolated polynucleotide

- encoding a polypeptide comprising the amino acid sequence of SEQ ID NO: 2.
- Claim 114 (New) The method according to claim 113,
 wherein said isolated polynucleotide comprises the nucleotide
 sequence of nucleotides 165 to 3587 of SEQ ID NO:1.
- Claim 115 (New) The method according to claim 113, wherein said isolated polynucleotide comprises the nucleotide sequence of SEQ ID NO:1.
- Claim 116 (New) A method of microbial production of
 L-lysine in a culture medium, by a strain of Corynebacterium
 glutamicum, whereby said strain is transformed by an isolated
 polynucleotide encoding pyruvate carboxylase comprising a sequence
 selected from the group consisting of
 - a) a polynucleotide encoding a pyruvate carboxylase polypeptide comprising the amino acid sequence of SEQ ID ND: 2; and
- b) a polynucleotide encoding the pyruvate carboxylase
 polypeptide having the amino acid sequence encoded by the clone
 contained in the bacterium deposited under DSM 12893,
 wherein said pyruvate carboxylase is expressed with increased copy
 numbers compared to the starting strain, and producing said

L-lysine.

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- Claim 117 (New) The method according to claim 116,
 wherein said isolated polynucleotide comprises the nucleotide
 sequence of nucleotides 165 to 3587 of SEQ ID NO:1.
- Claim 118 (New) The method according to claim 116,
 wherein said isolated polynucleotide comprises the nucleotide
 sequence of SEQ ID NO:1.